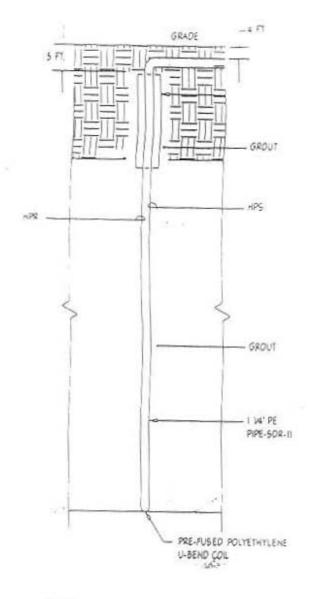
SEQUENCE NO. STATE OF MARYLAND THIS REPORT MUST BE SUBMITTED WITHIN (MDE USE ONLY) 45 DAYS AFTER WELL IS COMPLETED. WELL COMPLETION REPORT COUNTY FILL IN THIS FORM COMPLETELY (THIS NUMBER IS TO BE PUNCHED NUMBER IN COLS. 3-6 ON ALL CARDS) PLEASE TYPE ST/CO USE ONLY DATE WELL COMPLETED Depth of Well FROM "PERMIT TO DRILL, WELL" DATE Received -() P 30 31 32 33 34 35 36 37 15 (TO NEAREST FOOT) TOWN NOOH STREET OR RFD SUBDIVISION SECTION LOT **GROUTING RECORD** C 3 N WELL HAS BEEN GROUTED (Circle Appropriate Box) Not required for driven wells **PUMPING TEST** STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING TYPE OF GROUTING MATERIAL (Circle one) HOURS PUMPED (nearest hour) DESCRIPTION (Use CEMENT CM BENTONITE CLAY BC FROM TO NO. OF BAGS NO. OF POUNDS PUMPING RATE (gal. per min.) **GALLONS OF WATER** METHOD USED TO DEPTH OF GROUT SEAL (to nearest foot) MEASURE PUMPING RATE. ft. to 54 BOTTOM WATER LEVEL (distance from land surface) (enter 0 if from surface) BEFORE PUMPING CASING RECORD casing types CONCRETE SIT insert WHEN PUMPING appropriate code OT TYPE OF PUMP USED (for test) A T turbine Total depth MAIN Nominal diameter CASING top (main) casing of main casing (nearest inch)! (nearest foot) TYPE C R 0 (describe below) 60 61 63 64 70 J jot S submersible OTHER CASING (If used) depth (feet) from inch PUMP INSTALLED DRILLER INSTALLED PUMP YES NO (CIRCLE) (YES or NO) IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS. SCREEN RECORD TYPE OF PUMP INSTALLED screen type or open hole PLACE (A,C,J,P,R,S,T,O) 29 ST BR H O IN BOX 29 insert CAPACITY appropriate BRÓNZE HOLE GALLONS PER MINUTE code PL OIT (to nearest gallon) 35 PUMP HORSE POWER 37 41 2 C DEPTH (nearest ft.) PUMP COLUMN LENGTH NUMBER OF UNSUCCESSFUL WELLS: (nearest ft.) (circle appropriate box and enter casing height) CASING HEIGHT WELL HYDROFRACTURED 15 17 21 N LAND SURFACE CIRCLE APPROPRIATE LETTER 23 24 30 32 36 A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED (nearest) below foot) 50 51 **ELECTRIC LOG OBTAINED** 41 45 47 51 TEST WELL CONVERTED TO PRODUCTION LOCATION OF WELL ON LOT SLOT SIZE 1 SHOW PERMANENT STRUCTURE SUCH AS I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAIN 18 04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCUPATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE. BUILDING, SEPTIC TANKS, AND /OR DIAMETER (NEAREST LANDMARKS AND INDICATE NOT LESS OF SCREEN INCH) THAN TWO DISTANCES (MEASUREMENTS TO WELL) DRILLERS LIC. NO. 1 MAB GRAVEL PACK F WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68 DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION) MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) LIC. NO. 1 MW DE (E.R.O.S.) WO ⊕ 70 72 SITE SUPERVISOR (sign: of driller or journeyman 75 LOG TELESCOPE responsible for sitework if different from permittee) OTHER DATA COUNTY DENV-CROD

	STATE OF MARYLAND LICATION FOR PERMIT TO DRILL WEL 32572 please type	70 1011
Date Received (APA)    Date Received (APA)   OWNER INFORMATION     S	Name 34 B 3 B 3 B COUNTY  The Encla  8 COUNTY  The Encla  23 SUBDIVISION  SECTION L  23 SUBDIVISION  SECTION L  24 46  Ella  52 NEAREST TOWN  MILES FROM TOWN (enclapse)  DIRECTION OF WELL FROM TOWN (CIRCLE BOX)  OLU  N  8 P 8 P 8 P 8 P 8 P 8 P 8 P 8 P 8 P 8	LOCATION OF WELL  21  21  LOT AB 50  THE O If In town) 73 76 77 78 14 15 11 NEAR WHAT ROAD 30  ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX) WEST STANCE FROM ROAD  DISTANCE FROM ROAD
(GAL PER MIN.) 8  AVERAGE DAILY QUANTITY NEEDED (GAL PER DAY)  14	12 SW S SE 8-9	TAX MAP: BLK: PARCEL PARCEL
D DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION  F FARMING (LIVESTOCK WATERING & AGRICULTURING IRRIGATION)  22 I INDUSTRIAL COMMERICIAL, DEWATERING P PUBLIC WATER SUPPLY WELL T TEST, OBSERVATION, MONITORING G GEO-THERMAL 2 × 450	RAL COUNTY NAME STATE SIGNATURE DATE ISSUED 43 MM 60 YY 48 NORTH 60 2	COUNTY NO.  INSERT S  CO SIGNATURE EAST O 0 0 GRID  TO BE FILLED IN BY DRILLER  COUNTY NO.  INSERT S  EXP. DATE  EAST O 0 0 GRID  TO 0 0 0 63
APPROXIMATE DIAMETER OF WELL  METHOD OF DRILLING (circle of BORED (or Augered)  JETTED	SHOW MAJOR FEATURE BOX & LOCATE WELL: WITH AN X  SOURCES OF DRILLING 1. 2. one) 3. Jetted & DRIVEN Y (Hydraulic Rotary) DRive-POINT FROM THE MAP HERE	ER ER
REPLACEMENT OR DEEPENED V (CIRCLE APPROPRIATE BOX)  IN THIS WELL WILL NOT REPLACE AN EXISTING WEIL  Y THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED  IT HIS WELL WILL REPLACE A WELL THAT WILL BE AS A STANDBY-CONTACT LOCAL APPROVING AUT FOR POLICY ON STANDBY WELLS  D THIS WELL WILL DEEPEN AN EXISTING WELL PERMIT NUMBER OF WELL TO BE REPLACED OR DEEP (IF AVAILABLE) 41  Not to be filled in by driller (MDE OR COUNTY APPROP. PERMIT NUMBER	DRAW A SKETCH BELO RELATION TO NEARBY DISTANCE FROM WELL  Frederick  PENED  52  N	7 3 000 000  W SHOWING LOCATION OF WELL IN TOWNS AND ROADS AND GIVE TO NEAREST ROAD JUNCTION  R  Drive  F  TOWN  T
SPECIAL CONDITIONS WITH APPROVING AUTHORITIES SHOULD USE TEPARATE SHEET P METERS -		•

#/21/2010 Borehole Locations O.X. BB) 9215 Wilrick Overlook Driveway ó DO NOT REMOVE THIS TAG DEPARTMENT OF THE ENVIRONMENT WELL PERMIT NUMBER HO-95-1891 INFORMATION-GIVE NUMBER AND WRITE 1800 WASHINGTON BLVD. BALTIMORE, MARYLAND 21230





2 2 24

11 1 4



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March 22, 2010

Howard County Health Department 7178 Columbia Gateway Drive Columbia, MD 21046

Fax: 410-313-2648

Re:

Lot 4, The Enclave at Dunloggin Dear Department of Environment:

Please note unless otherwise specified all geothermal bores installed by our company will be installed as follows:

Grout:

Bentonite Grout 20% solids minimum

Manufacture(s): Baroid or Wyo-Ben

Will be grouted from the bottom to the top with grout material

Piping:

Polyethylene SDR 11 160 PSI as recommended per IGSHPA

Manufacture: EnDot or Charter Plastics or equal, Size 1" or 1 1/4"

IGSHPA Certification Number 12687

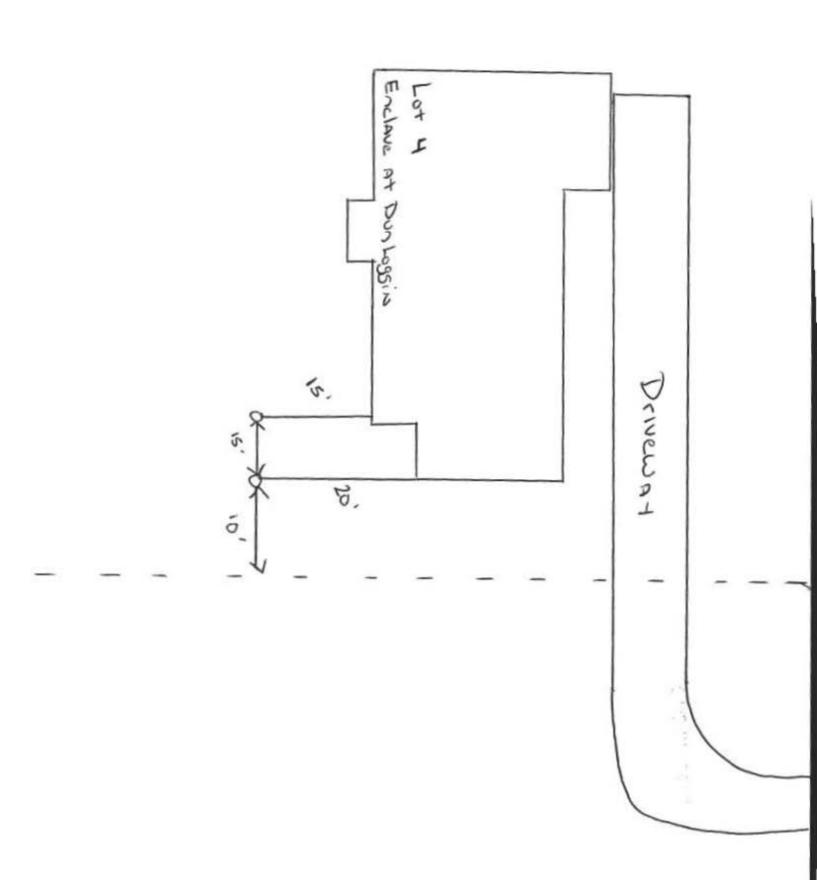
Also attached is a cross section diagram of the bore hole.

We would appreciate your help in getting this permit released as soon as possible so that we can expedite this project. If you have any questions, please do not hesitate to contact me.

Sincerely,

Michael Barlow

Michael 3--



## MICHAEL BARLOW WELL DRILLING 522 UNDERWOOD LANE BEL AIR, MD 21014 410-838-6910 410-838-3582 FAX

Howard County Health Dept 7178 Columbia Gateway Drive Columbia, MD 21046

March 22, 2010

The proximity of the side property line, the slope of the rear yard and the wooded area to the rear prevents us from placing the geo holes any further from the house than shown. We will be able to stay at least 10' from the side and rear property lines. Please give me a call if you have any questions.

Michael Isom